FIG.1

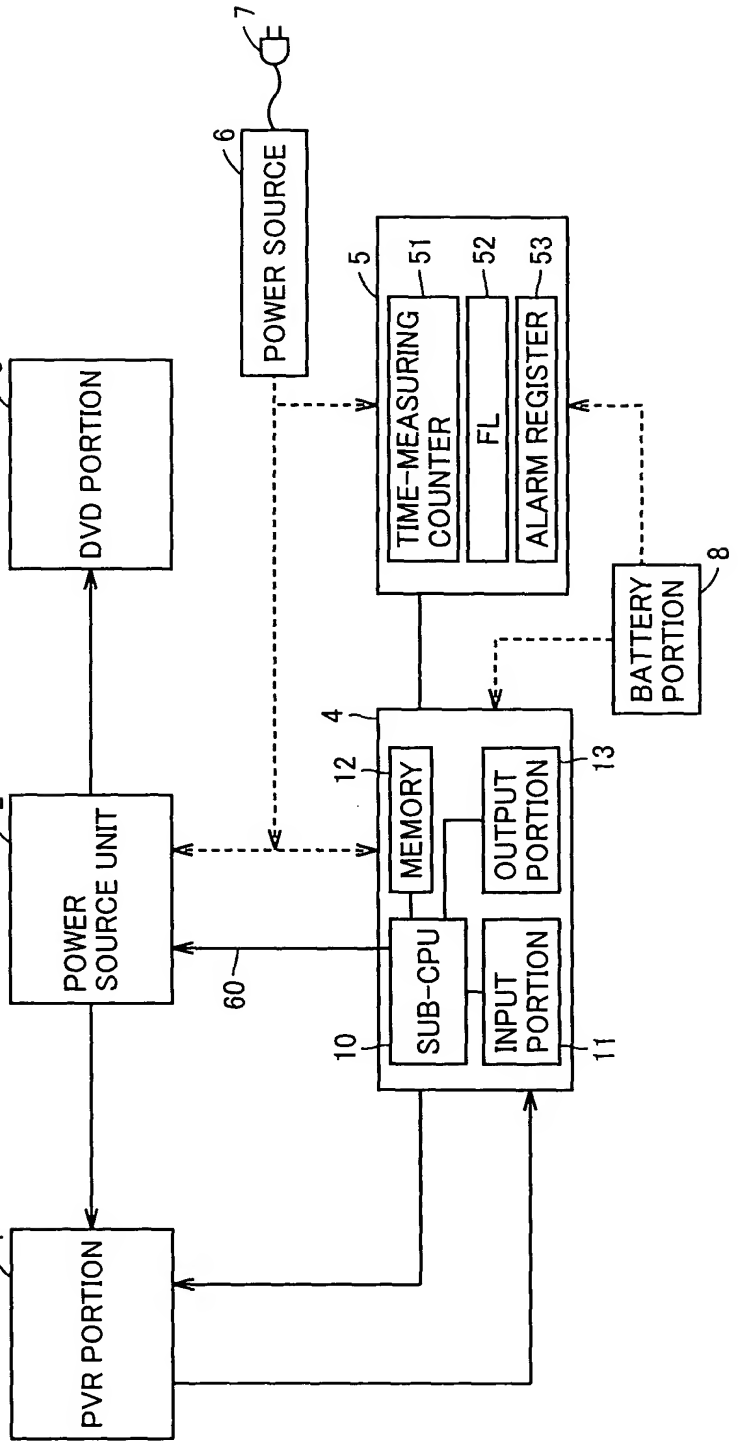

1
PVR PORTION
2
POWER SOURCE UNIT
3
DVD PORTION
4
MEMORY
12
SUB-CPU
10
INPUT PORTION
11
OUTPUT PORTION
13
60
5
TIME-MEASURING COUNTER
51
FL
52
ALARM REGISTER
53
6
POWER SOURCE
7
8
BATTERY PORTION

FIG.2

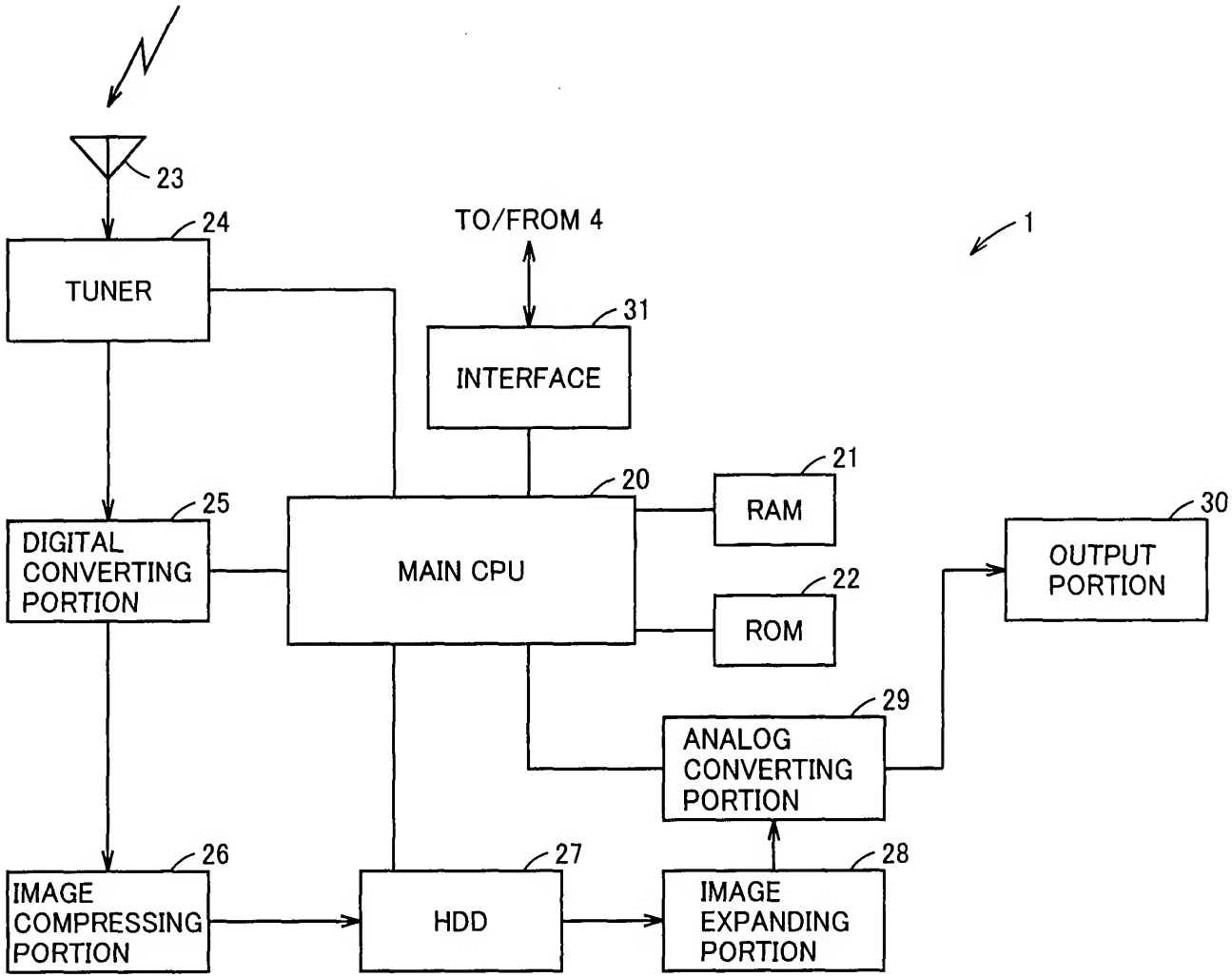

23
24
TUNER
TO/FROM 4
31
INTERFACE
1
25
DIGITAL CONVERTING PORTION
20
MAIN CPU
21
RAM
22
ROM
30
OUTPUT PORTION
29
ANALOG CONVERTING PORTION
26
IMAGE COMPRESSING PORTION
27
HDD
28
IMAGE EXPANDING PORTION

FIG.3A

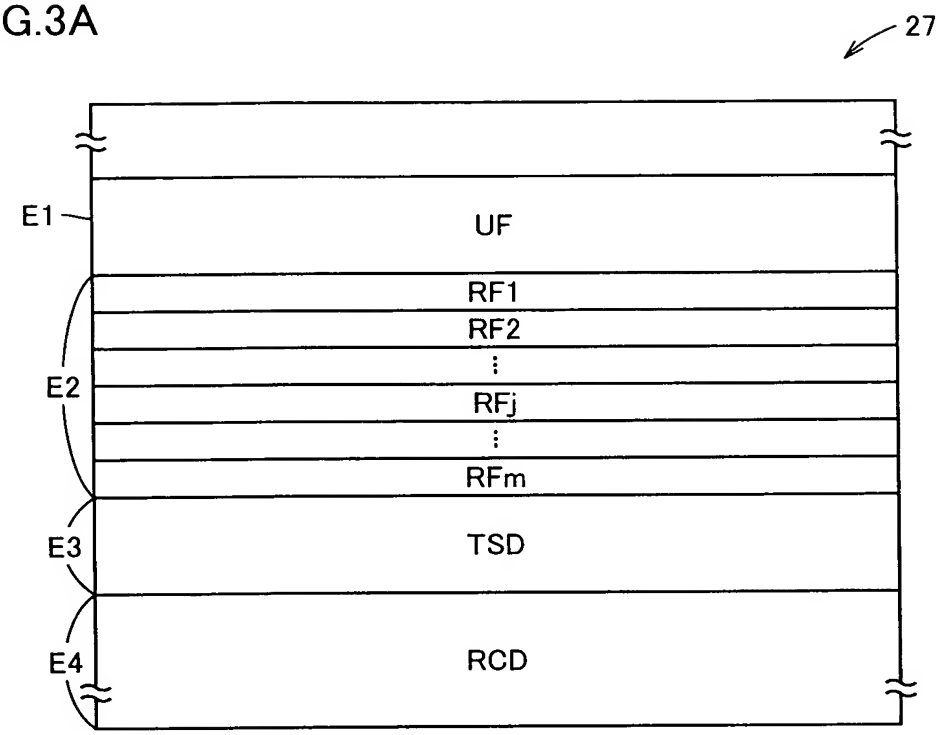


FIG.3B

FIG.3C

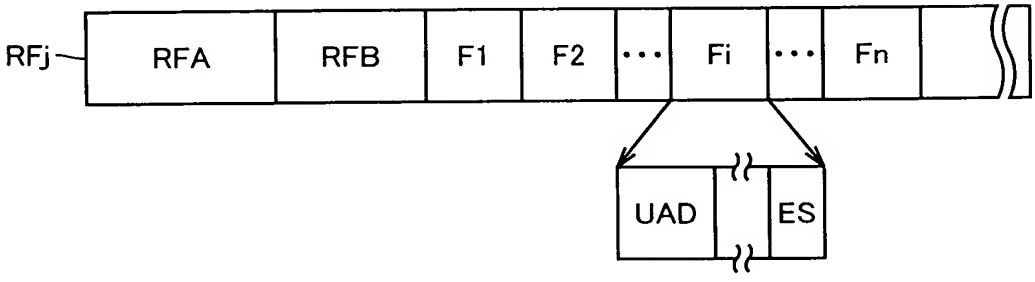


FIG.4

PORTION / MODE	SUB-MICROCOMPUTER	PVR PORTION	DVD PORTION
STANDBY	○	×	×
POWER-ON	○	○	○
SCHEDULED IMAGE RECORDING	○	○	×

×: POWER SUPPLY ABSENT
○: POWER SUPPLY PRESENT

FIG.5

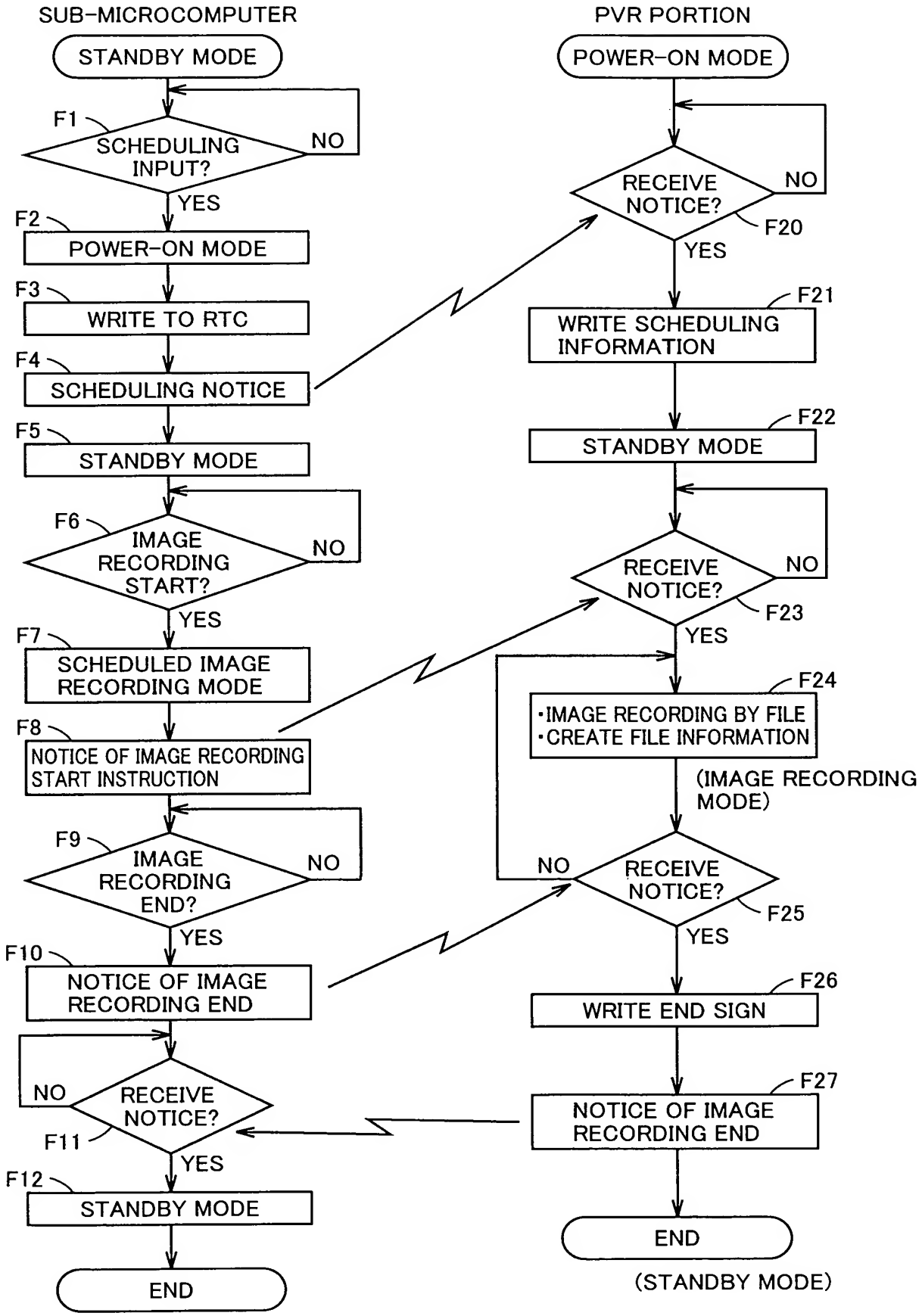
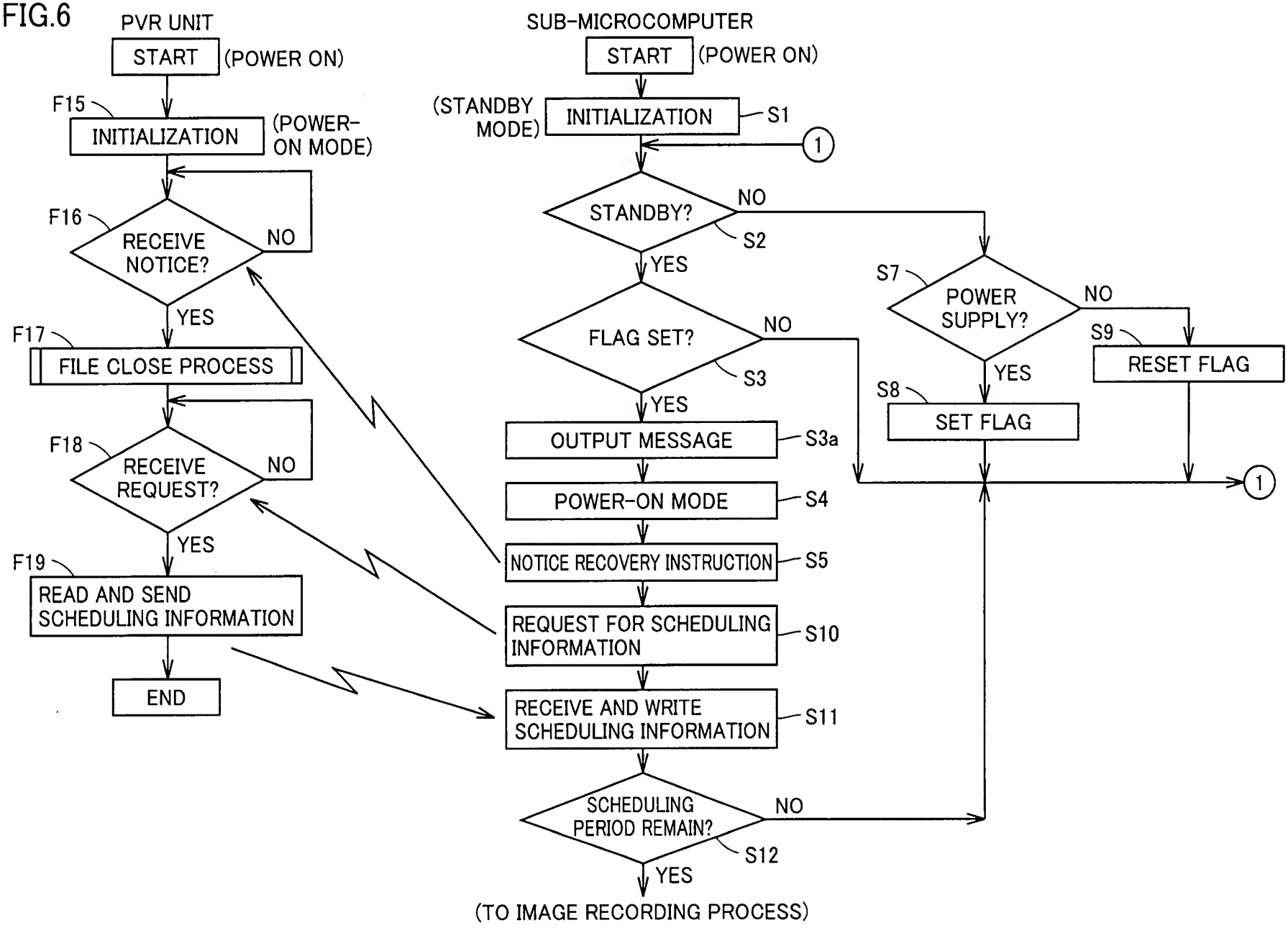

SUB-MICROCOMPUTER
PVR PORTION
STANDBY MODE
POWER-ON MODE
F1
SCHEDULING INPUT?
NO
YES
F2
POWER-ON MODE
F3
WRITE TO RTC
F4
SCHEDULING NOTICE
F5
STANDBY MODE
F6
IMAGE RECORDING START?
NO
YES
F7
SCHEDULED IMAGE RECORDING MODE
F8
NOTICE OF IMAGE RECORDING START INSTRUCTION
F9
IMAGE RECORDING END?
NO
YES
F10
NOTICE OF IMAGE RECORDING END
NO
RECEIVE NOTICE?
F11
YES
F12
STANDBY MODE
END
RECEIVE NOTICE?
NO
F20
YES
F21
WRITE SCHEDULING INFORMATION
F22
STANDBY MODE
RECEIVE NOTICE?
NO
F23
YES
F24
·IMAGE RECORDING BY FILE
·CREATE FILE INFORMATION
(IMAGE RECORDING MODE)
NO
RECEIVE NOTICE?
F25
YES
F26
WRITE END SIGN
F27
NOTICE OF IMAGE RECORDING END
END
(STANDBY MODE)

FIG.6


PVR UNIT
START
(POWER ON)
F15
INITIALIZATION
(POWER-ON MODE)
F16
RECEIVE NOTICE?
NO
YES
F17
FILE CLOSE PROCESS
F18
RECEIVE REQUEST?
NO
YES
F19
READ AND SEND SCHEDULING INFORMATION
END
SUB-MICROCOMPUTER
START
(POWER ON)
(STANDBY MODE)
INITIALIZATION
S1
1
STANDBY?
NO
S2
YES
FLAG SET?
NO
S3
YES
OUTPUT MESSAGE
S3a
POWER-ON MODE
S4
NOTICE RECOVERY INSTRUCTION
S5
REQUEST FOR SCHEDULING INFORMATION
S10
RECEIVE AND WRITE SCHEDULING INFORMATION
S11
SCHEDULING PERIOD REMAIN?
NO
S12
YES
(TO IMAGE RECORDING PROCESS)
S7
POWER SUPPLY?
NO
YES
S8
SET FLAG
S9
RESET FLAG
1